

# CURRICULUM VITAE

## PARISA POOYAN

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### EDUCATION

- Jan 2009 to Present**      **Georgia Institute of Technology, Atlanta, GA**  
*PhD Candidate, Mechanical Engineering*  
GPA: 3.8/4.0
- December 2008**      **Georgia Institute of Technology, Atlanta, GA**  
*Research Assistant, Structural Engineering, Mechanics and Materials*
- May 2006**      **Georgia Institute of Technology, Atlanta, GA**  
*M.S., Civil and Environmental Engineering*  
GPA: 3.8/4.0
- December 2003**      **East Tennessee State University, Johnson City, TN**  
*Master of Business Administration (MBA)*  
GPA: 3.71/4.0
- August 2000**      **University of Tehran, Tehran, Iran**  
*B.S., Civil and Environmental Engineering*  
GPA: 15.27/20

### ACADEMIC RESEARCH

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- Jan 2009 to Present**      **Georgia Institute of Technology, Atlanta, GA**  
*Graduate Research Assistant: "Designing a Cellulose Reinforced Nanocomposite as a Potential Scaffold in Cardiovascular Tissue Engineering", Supervised by Professors Cyrus Aidun, Rina Tannenbaum, and Hamid Garmestani.*
- Jan 2006 - Dec 2008**      **Georgia Institute of Technology, Atlanta, GA**  
*Graduate Research Assistant: "Mechanical Modeling of a Tensegrity-based Structure as an Assembly for Nucleated Cells".*
- Sept 2003 - Dec 2005**      **Georgia Institute of Technology, Atlanta, GA**  
*Graduate Student Assistant: "Archive Management of the Design & Construction GT Site Plans", Supervised by Donald Alexander, PE.*
- Jan 2003 - May 2003**      **East Tennessee State University, Johnson City, TN**  
*Graduate Research Assistant: "Studying the Market Possibilities of a Low Cost Electrocardiogram for the Siemens Company in TN", Supervised by Professor Jon L. Smith.*
- Aug 2001 - Aug 2003**      **East Tennessee State University, Johnson City, TN**  
*Graduate Research Assistant: "Understanding the Current Marketing and Environmental Issues in Business Management", Supervised by Professor Phillip E. Miller.*

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- Sept 1998 - Aug 2000**      **Iran Photogrammetrist Company, Tehran, Iran**  
*Intern:* Developing a Site Plan for "Tehran Municipal Master Project", Supervised by Giti Kerachi, Senior Engineer.
- July- Aug 1999/ 2000**      **University of Tehran, Iran**  
*Intern:* "Designing a Geodetic Network using MATLAB and GIS Arc Info", Supervised by Professor Mohammad Ali Sharifi.

### AWARDS/ RECOGNITIONS

- The Nano Today Student Travel Award [Waikoloa, Hawaii, 2011].
- International Research Fellowship sponsored by the Fonds National de la Recherche Luxembourg [Luxembourg City, Luxembourg, Summer 2011].
- Georgia Tech Research & Innovation Conference Award: Excellent Poster Presentation [Atlanta, GA, 2011].
- The Biological Materials Science Student Travel Award sponsored by National Science Foundation (NSF) [San Diego, CA, 2011].
- The Regenerative Medicine Trainee Student Travel Award [Hilton Head, SC, 2011].
- A Judge for the Georgia Tech's Undergraduate Research Spring Symposium and Awards [Atlanta, GA, 2011].
- A Reviewer for the Georgia Tech President's Undergraduate Research Awards [Atlanta, GA, since Spring 2011].

### RESEARCH PUBLICATIONS

- **Pooyan P.**, Kim I., Tannenbaum R., Garmestani H., [2012], "Fabrication of a Cellulose-based Nanocomposite with Aligned Nanofibers as a Potential Scaffold in Cardiovascular Tissue Engineering", *To be Submitted*.
- **Pooyan P.**, Tannenbaum R., Garmestani H., [2012], "Characterization of a Cellulose-Reinforced Biomaterial with an Improved Supermolecular Structure in Cardiovascular Tissue Engineering", *In preparation*.
- **Pooyan P.**, Tannenbaum R., Garmestani H., [2012], "Biomedical Applications of Cellulose-based Biomaterials: A Review", *In preparation*.
- **Pooyan P.**, Garmestani H., [2011], "Mechanical Behavior of a Cellulose-Reinforced Scaffold in Vascular Tissue Engineering", *Journal of the Mechanical Behavior of Biomedical Materials*, DOI:10.106/j.jmbbm.2011.09.009.
- **Pooyan P.**, Miller P., [2004], "An Approach for Marketing Service Entertainment to Specific Target Populations in Festival Programs", *Southeast Decision Science Conference Proceeding*, Charleston, SC.

## PARISA POOYAN

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### CONFERENCE PRESENTATIONS

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- **Pooyan P.**, Tannenbaum R., Garmestani H., [2012] "Mechanical Behavior of a Cellulose-based Nanocomposite in Vascular Tissue Engineering", *Biological Materials Science at TMS 141th Annual Meeting and Exhibition*, Orlando, FL.
- **Pooyan P.**, Tannenbaum R., Garmestani H., [2012] "Fabrication of a Cellulose-based Nanocomposite as a Potential Scaffold in Cardiovascular Tissue Engineering", *9th World Biomaterials Congress (WBC)*, Chengdu, China.
- **Pooyan P.**, Tannenbaum R., Garmestani H., [2012] "Mechanical Behavior of a Cellulose-based Nanocomposite in Vascular Tissue Engineering", *Regenerative Medicine: Innovation for Clinical Applications, 16th Annual workshop*, Hilton Head, SC.
- **Pooyan P.**, Tannenbaum R., Garmestani H., [2011] "A Cellulose-Reinforced Scaffold by Aligned Nanofibers in Cardiovascular Tissue Engineering", *Nano Today Conference*, Waikoloa, Hawaii.
- **Pooyan P.**, Tannenbaum R., Garmestani H., [2011] "Mechanical Behavior of a Cellulose-Reinforced Scaffold in Vascular Tissue Engineering", *4th International Conference on the Mechanics of Biomaterials and Tissues*, Waikoloa, Hawaii.
- **Pooyan P.**, Tannenbaum R., Garmestani H., [2011] "Cellulose-based Scaffolds in Cardiovascular Tissue Engineering", *Regenerative Medicine: Innovation for Clinical Applications, 15th Annual workshop*, Hilton Head, SC.
- **Pooyan P.**, Tannenbaum R., Garmestani H., [2011] "Fabrication of a Cellulosic Nanocomposite Scaffold with Improved Supermolecular Structure as a Potential Cardiovascular Tissue-Engineered Graft", *Biomimetics and Biomaterials at iBE: Advancing Biology-Inspired Engineering Conference*, Atlanta, GA.
- **Pooyan P.**, Tannenbaum R., Garmestani H., [2011] "Cellulose-based Nanocomposite in Cardiovascular Tissue Engineering", *Institute of Paper Science and Technology Executive Conference*, Atlanta, GA.
- **Pooyan P.**, Tannenbaum R., Garmestani H., [2011] "Fabrication of a Cellulosic Nanocomposite Scaffold with Improved Supermolecular Structure as a Potential Cardiovascular Tissue-Engineered Graft", *Biological Materials Science at TMS 140th Annual Meeting and Exhibition*, San Diego, CA.
- **Pooyan P.**, Aidun C. K., Tannenbaum R., Garmestani H., [2011] "Cellulose-based Nanocomposite as a Potential Scaffold in Cardiovascular Tissue Engineering", *Georgia Tech Research and Innovation Conference*, Atlanta, GA.
- **Pooyan P.**, Aidun C. K., Garmestani H., [2010] "Cellulose-based Nanocomposite as a Potential Scaffold in Cardiovascular Tissue Engineering", *The International Workshop on Materials Analysis and Processing in Magnetic Fields*, Atlanta, GA.

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- **Pooyan P.**, Miller P., [2004], "An Approach for Marketing Service Entertainment to Specific Target Populations in Festival Programs", *Southeast Decision Science Conference*, Charleston, SC.

### **PROFESSIONAL MEMBERSHIPS**

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- American Society of Mechanical Engineers, Bioengineering Division (ASME, BED).
- Biomedical Engineering Society.
- Society for Biomaterials.
- Material Advantage (ASM, TMS, AIST, AcERS).
- The Woodruff School of Mechanical Engineering Graduate Women's Group.
- Vice President of the "Iranian Student Association at Georgia Tech", 2009-2011.